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1. A pneumatic tire comprising a pair of bead portions each with a bead core therein, a carcass comprising one ply of cords extending between the bead portions through a tread portion and sidewall portions and turned back in each said bead portion from the axially inside to the axially outside of the tire and wound around the bead core in each said bead portion so as to form a pair of wound portions and a main portion therebetween,

each said wound portion having a radially outer part extending axially inwards along the radially outer face of the bead core to have a length not less than 0.5 times the width of said radially outer face when measured along the radially outer face,

each said bead portion provided between said radially outer part and the radially outer face of the bead core with an organic fiber cord layer,

a distance between the carcass cords in said radially outer part and the radially outer face of the bead core being in a range of from 0.05 to 1.0 times the section height of the bead core when measured in a normal direction to the radially outer face of the bead core.

2. The pneumatic tire according to claim 1, wherein each said bead portion is provided radially outside the radially outer part with a reinforcing layer of cords so as to secure the radially outer part between the reinforcing layer and the bead core.

3. The pneumatic tire according to claim 2, wherein the cords of the reinforcing layer are laid at an angle in

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a range of from 0 to 45 degrees with respect to the circumferential direction of the tire.

4. The pneumatic tire according to claim 2, wherein the cords of the reinforcing layer are laid at an angle in a range of from 0 to 5 degrees with respect to the circumferential direction.

5. The pneumatic tire according to claim 1, 2, 3 or 4, wherein

in each said bead portion, a bead apex rubber is disposed radially outside the radially outer part, and a chafer rubber is disposed axially outside the bead apex rubber,

the bead apex rubber has a 100% modulus in a range of from 6.3 to 8.6 MPa, and the chafer rubber has a 100% modulus in a range of from 5.4 to 8.2 MPa, and

the 100% modulus of the chafer rubber is less than the 100% modulus of the bead apex rubber.

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